

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A ~~production~~ method for producing a powdered core, comprising:

 preparing a mixture ~~including~~ comprising a soft magnetic powder and a resin powder;

 compacting the mixture into a predetermined shape to obtain a green compact;

 and

 heating the green compact;

 wherein:

 _____ the resin powder has a median size of not more than 50 μm , and the resin powder amount is 0.01 to ~~5 vol%~~ 2.65% by volume; and

 _____ the resin powder is a thermosetting polyimide resin, a thermoplastic polyimide resin, or a polytetrafluoroethylene resin.
2. (Currently Amended) The ~~production~~ method ~~for a powdered core~~ according to claim 1, wherein the resin powder ~~is made of~~ comprises a thermoplastic resin.
3. (Currently Amended) The ~~production~~ method ~~for a powdered core~~ according to claim 1, wherein the resin powder is a thermosetting resin with a median size of 30 μm or less.
4. (Canceled)
5. (Currently Amended) The ~~production~~ method ~~for a powdered core~~ according to claim ~~4~~ 1, wherein the thermosetting polyimide resin powder amount is 0.18 to 2.4 vol%.
6. (Currently Amended) The ~~production~~ method ~~for a powdered core~~ according to claim ~~4~~ 1, wherein the thermoplastic polyimide resin powder amount is 0.59 to 2.4 vol%

when the median size is not more than 50 μm , and is 0.18 to 2.4 vol% when the median size is not more than 13 μm .

7. (Currently Amended) The ~~production method for a powdered core~~ according to claim ~~4~~ 1, wherein the polytetrafluoroethylene resin amount is 0.36 to 1.4 vol% when the median size is not more than 10 μm , and is 0.11 to 1.4 vol% when the median size is not more than 5 μm .

8. (Currently Amended) The ~~production method for a powdered core~~ according to claim 1, wherein the soft magnetic powder is an iron powder having a surface ~~over which coated with a phosphate compound is coated~~,

the mixture is compacted with a compacting pressure of 700 to 2000 MPa to obtain a green compact,

the green compact is subjected to a heating treatment; and

~~and~~ it is machined to have a predetermined shape.

9. (Currently Amended) The ~~production method for a powdered core~~ according to claim 8, wherein the compacting is performed by applying a lubricant powder for compacting to an inner surface of a compacting die assembly without adding a lubricant powder for compacting to the mixture.

10. (Currently Amended) A ~~production method for~~ producing a solenoid core for an engine fuel injection device, comprising:

preparing a mixture according to claim 1; and

compacting the mixture with a compacting pressure of 1000 to 2000 MPa to obtain a green compact with a cylindrical shape;

wherein the green compact is subjected to a heating treatment and it is machined to have a predetermined shape.